

1 1 ELECTRONIC CAMERA

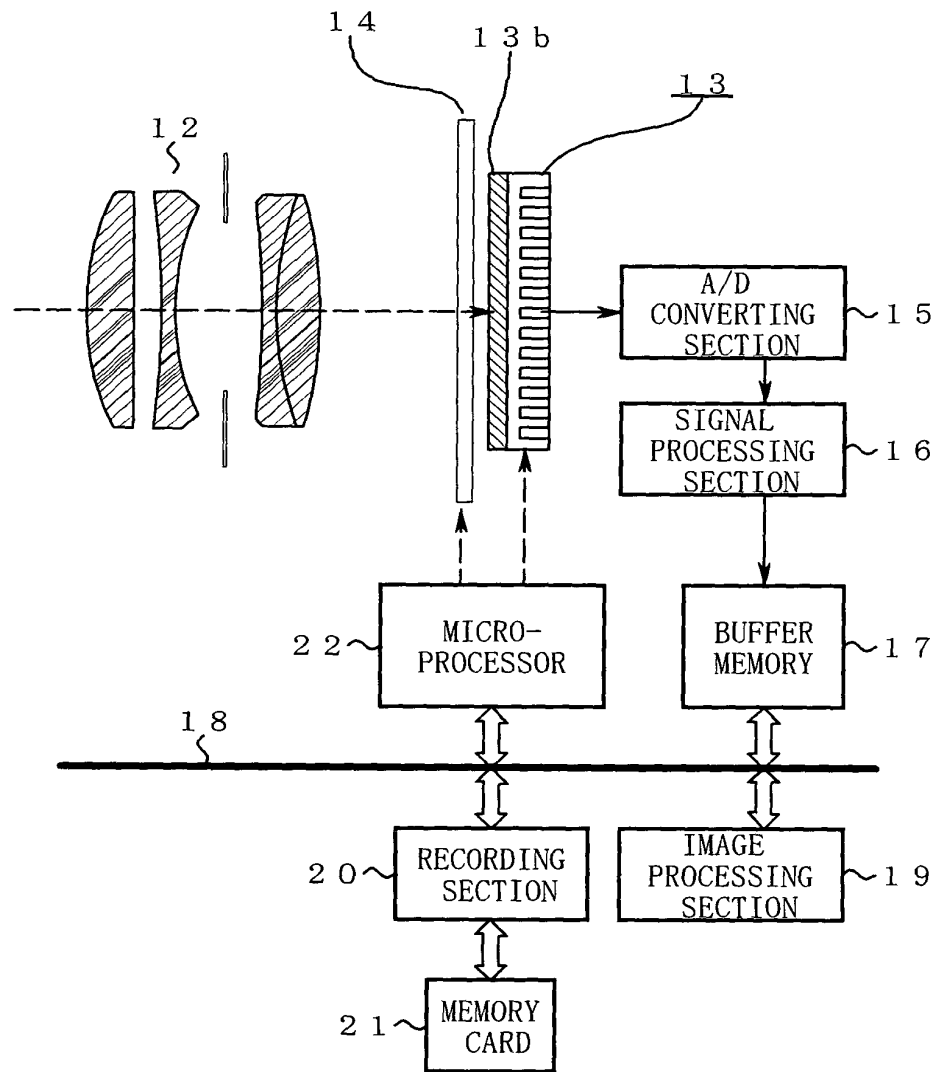


FIG. 1

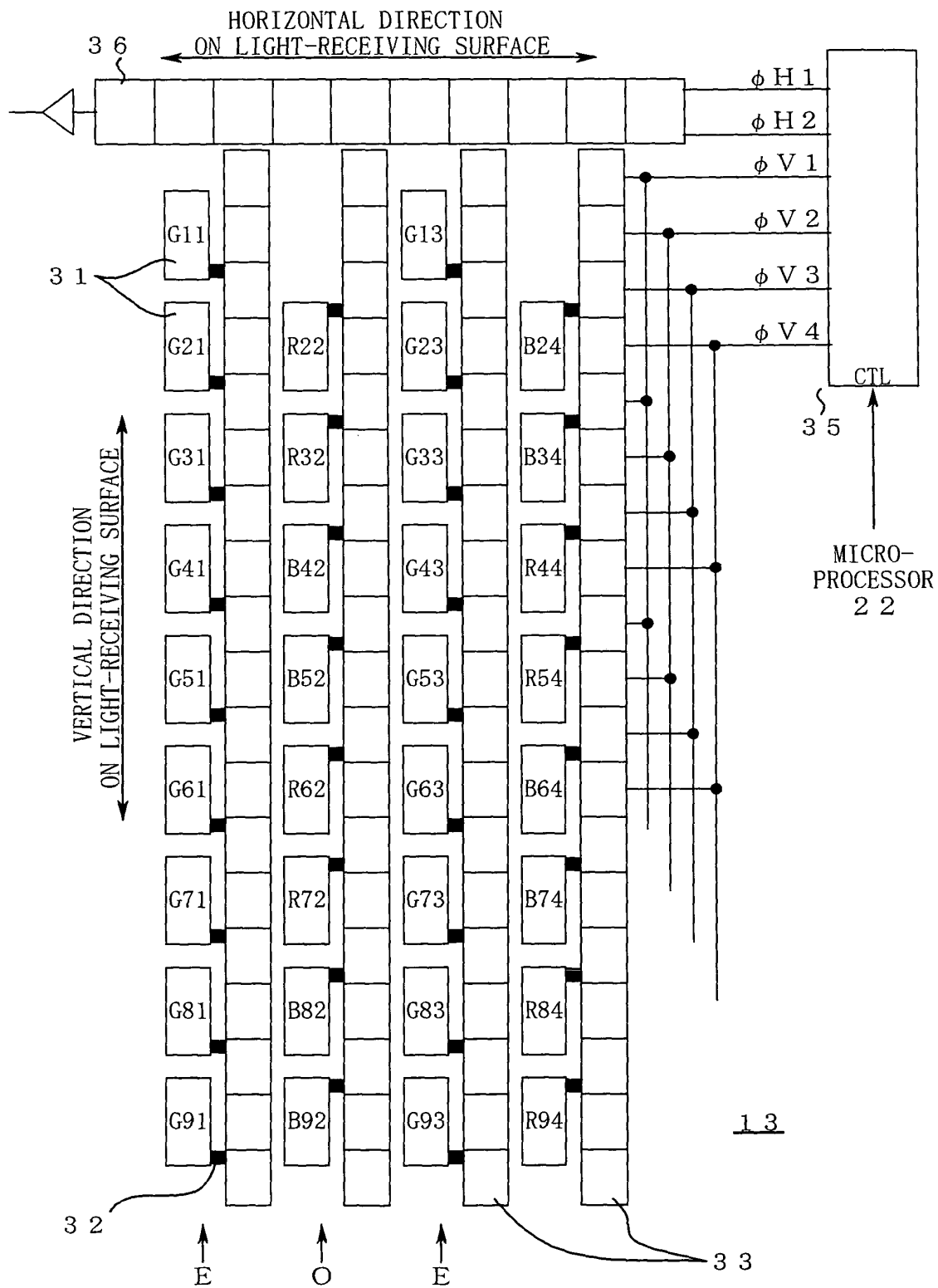


FIG. 2

E : EVEN NUMBER ARRAY
O : ODD NUMBER ARRAY

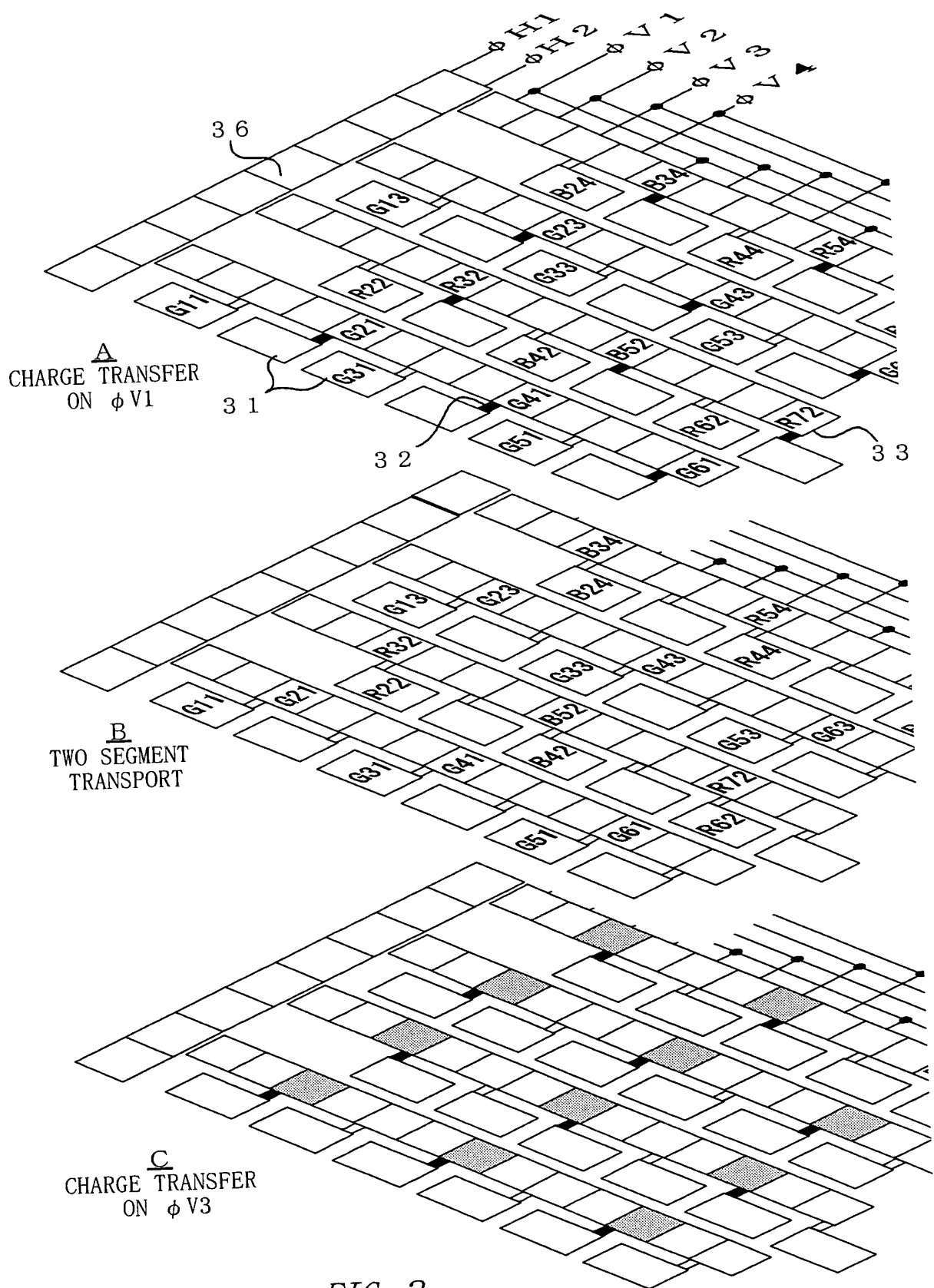
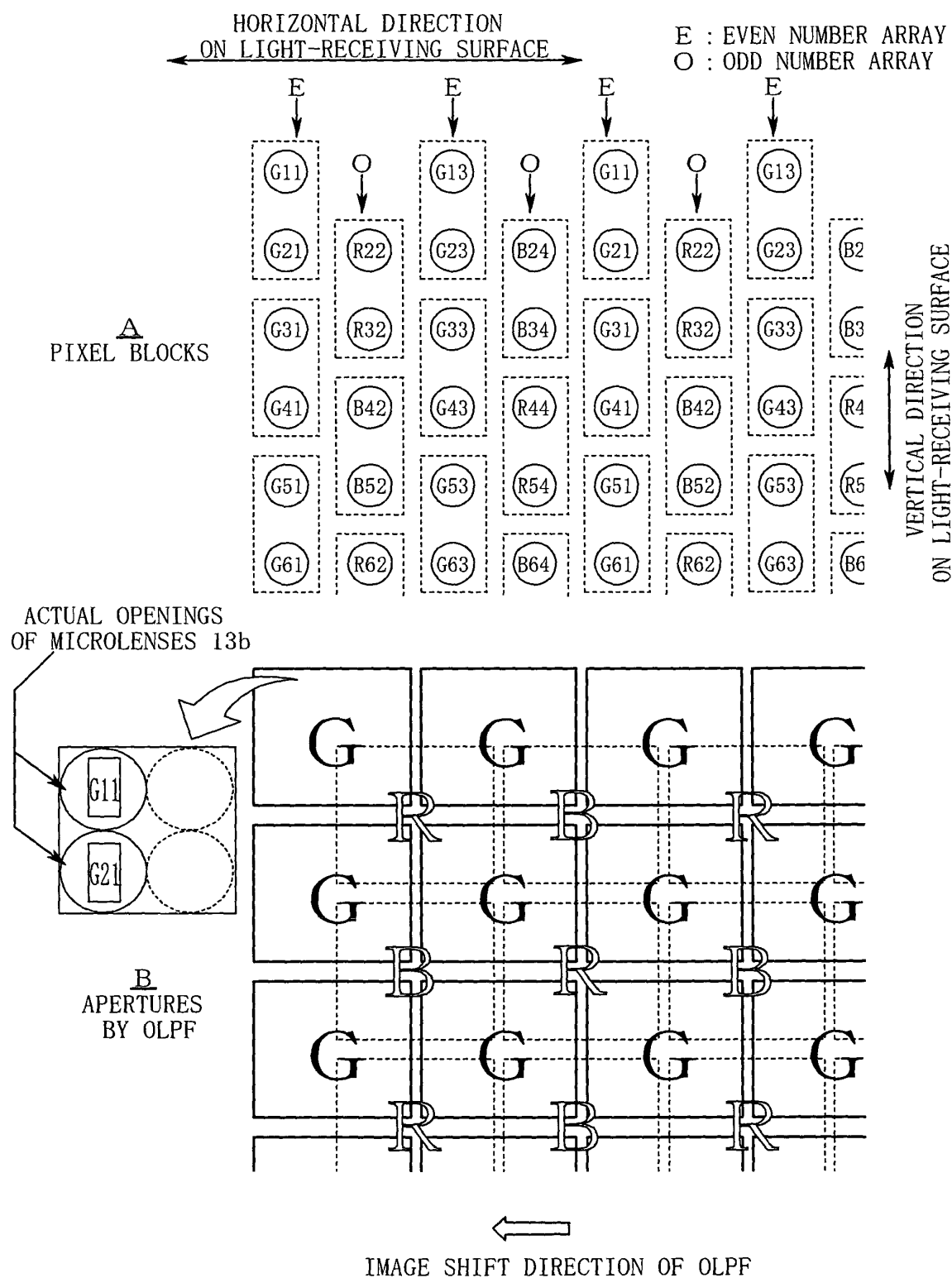


FIG. 3



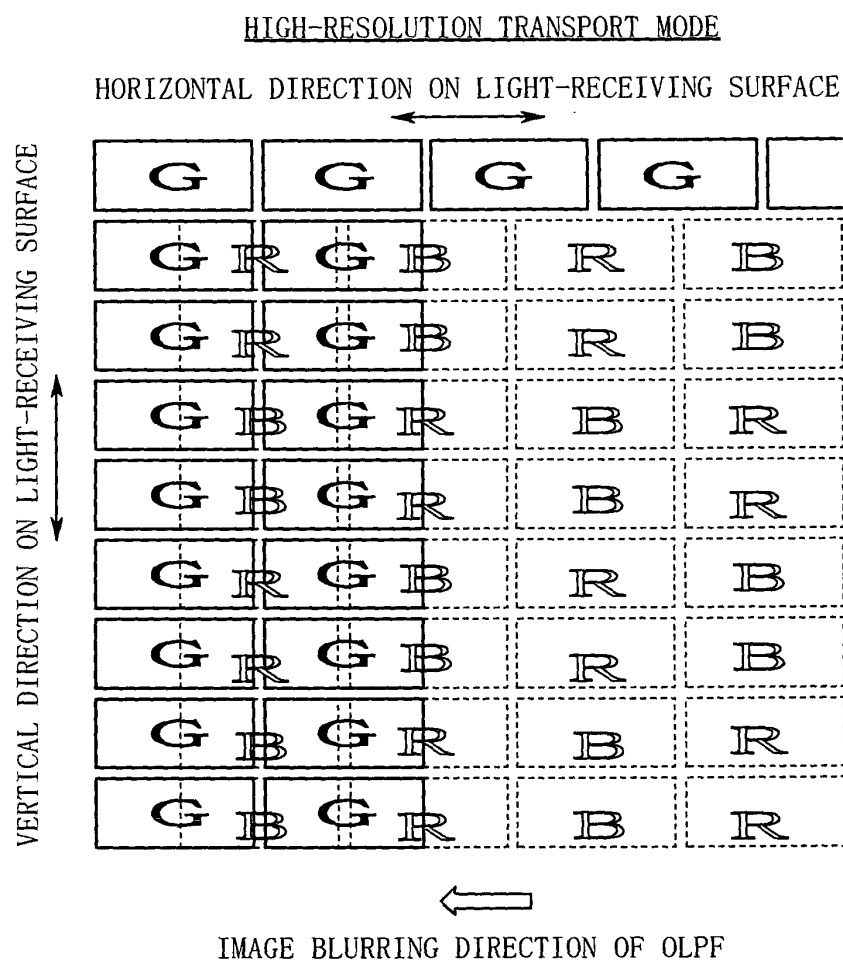


FIG. 5

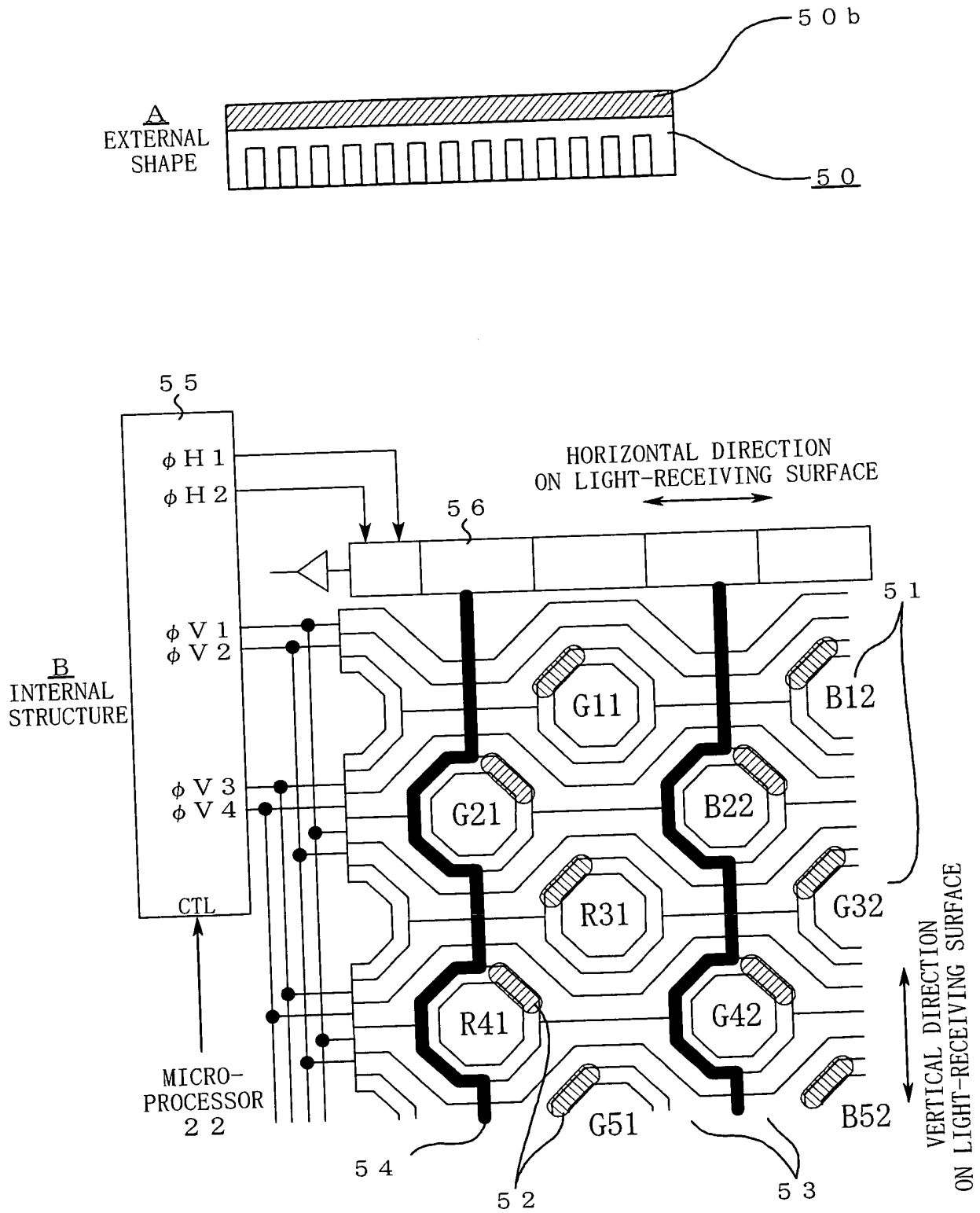


FIG. 6

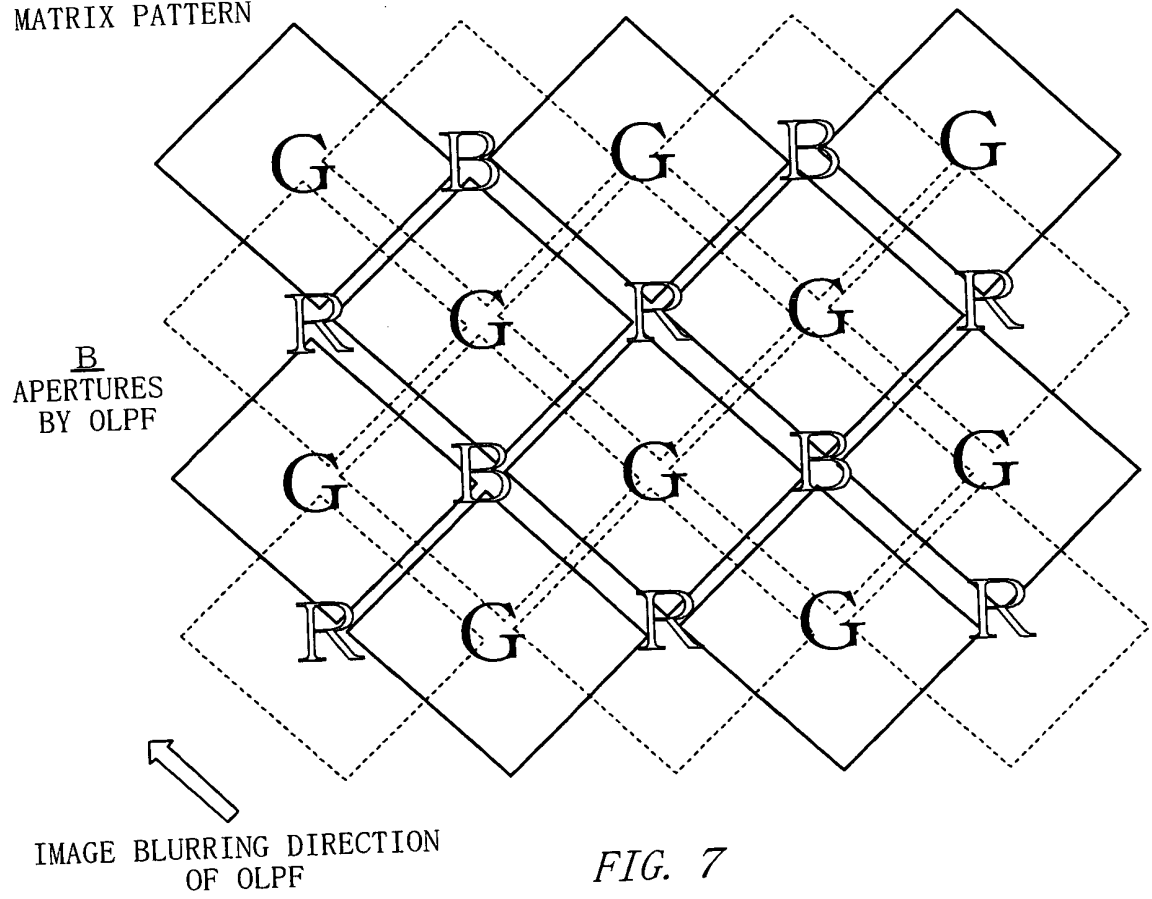
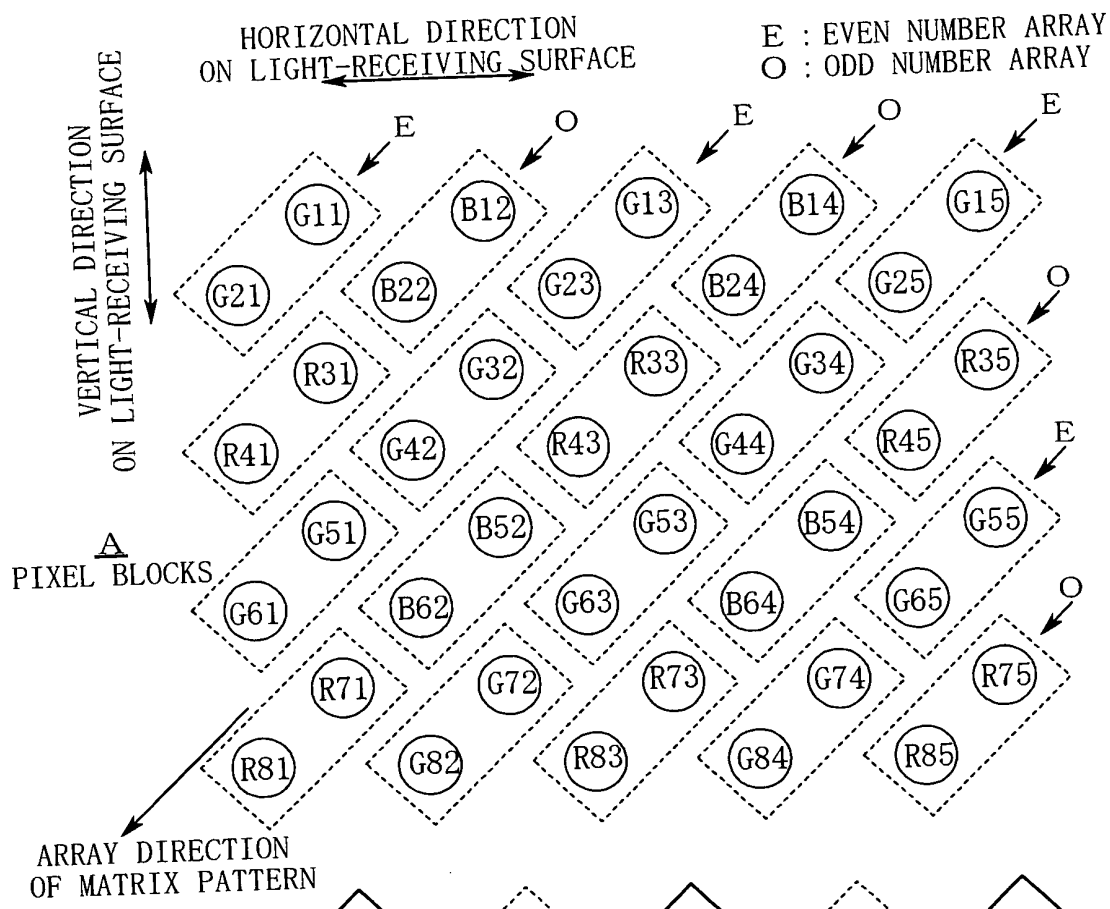


FIG. 7

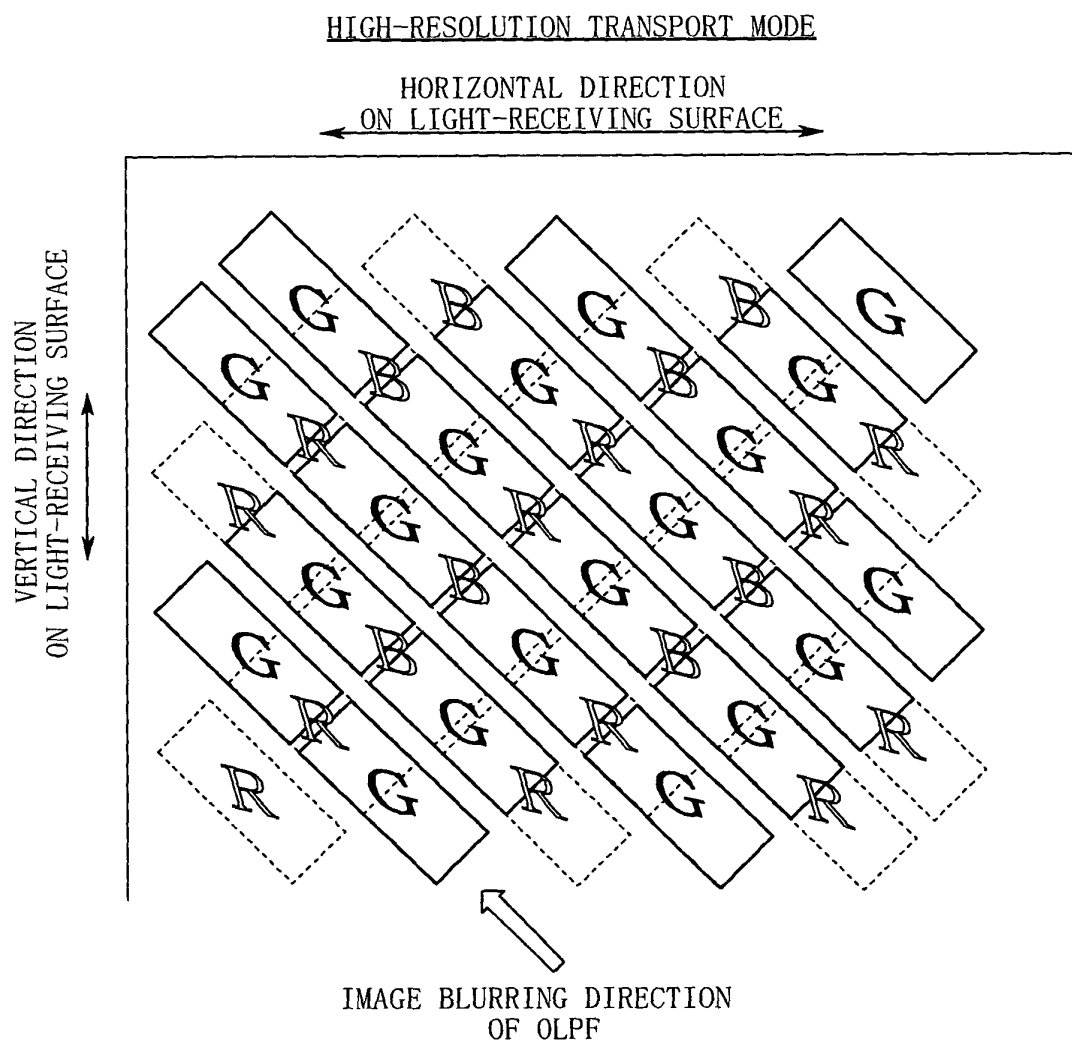


FIG. 8

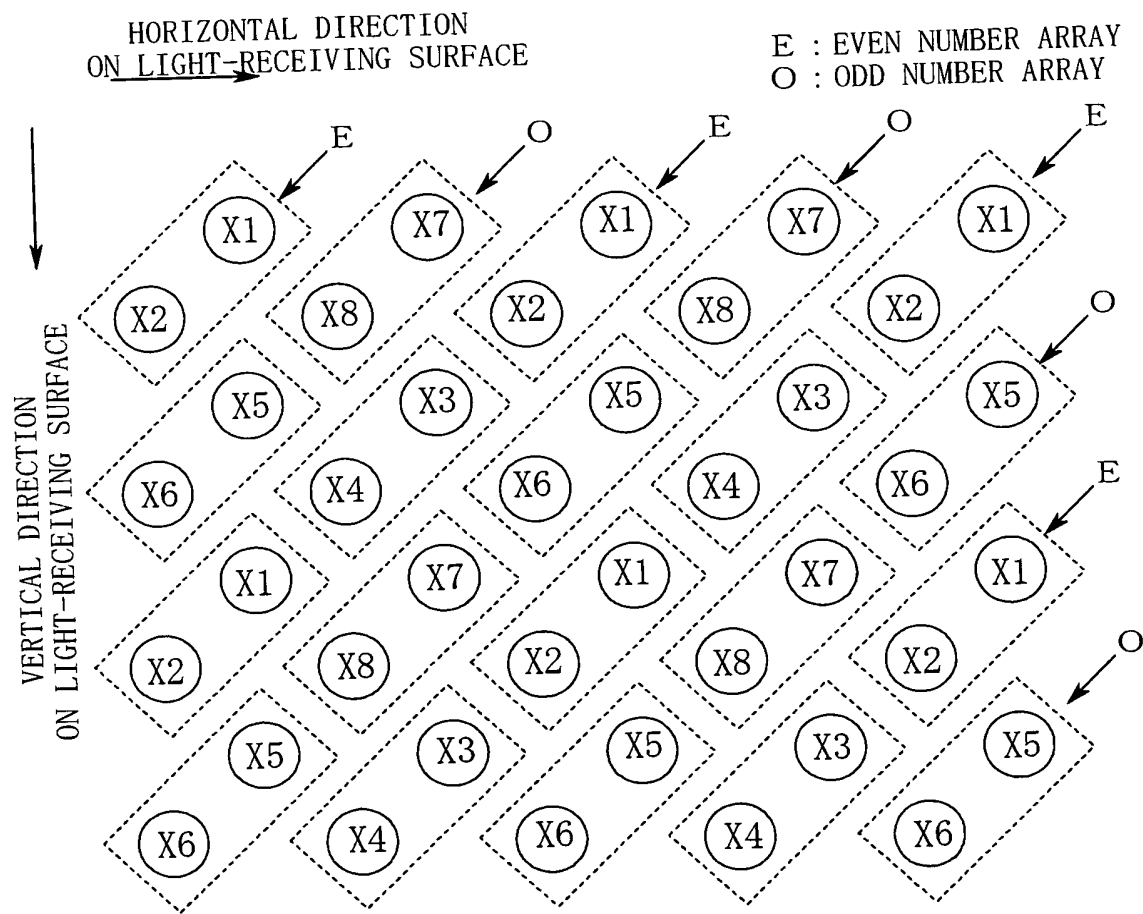


FIG. 1 O

	X1	X2	X3	X4	X5	X6	X7	X8
CFA PATTERN 1	G	G	G	G	R	R	B	B
CFA PATTERN 2	Y	Y	Y	Y	R	R	B	B
CFA PATTERN 3	Cy	Cy	Mg	Mg	G	G	Ye	Ye
CFA PATTERN 4	a1	a1	a2	a2	a3	a3	a4	a4

FIG. 1 1

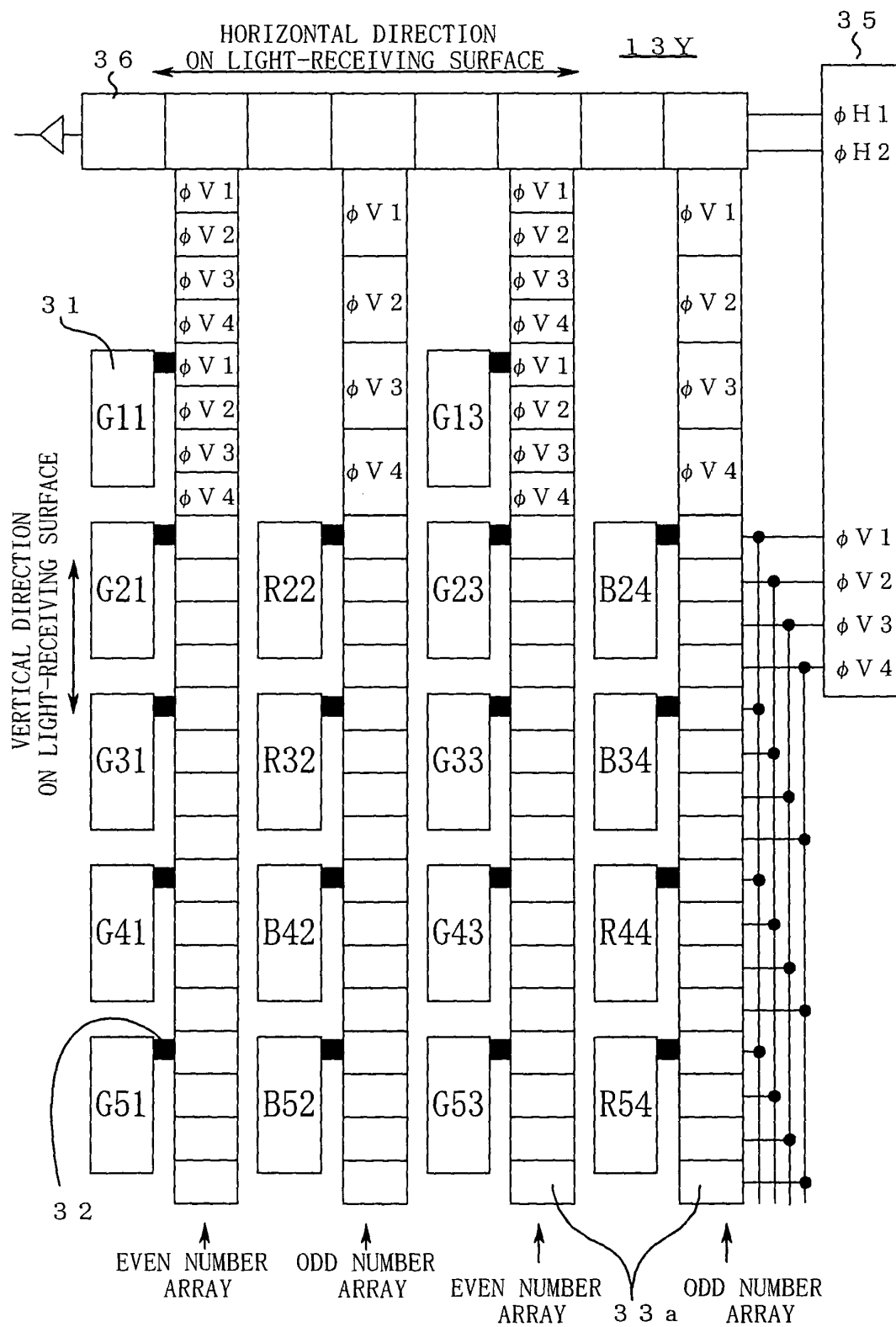


FIG. 1 2

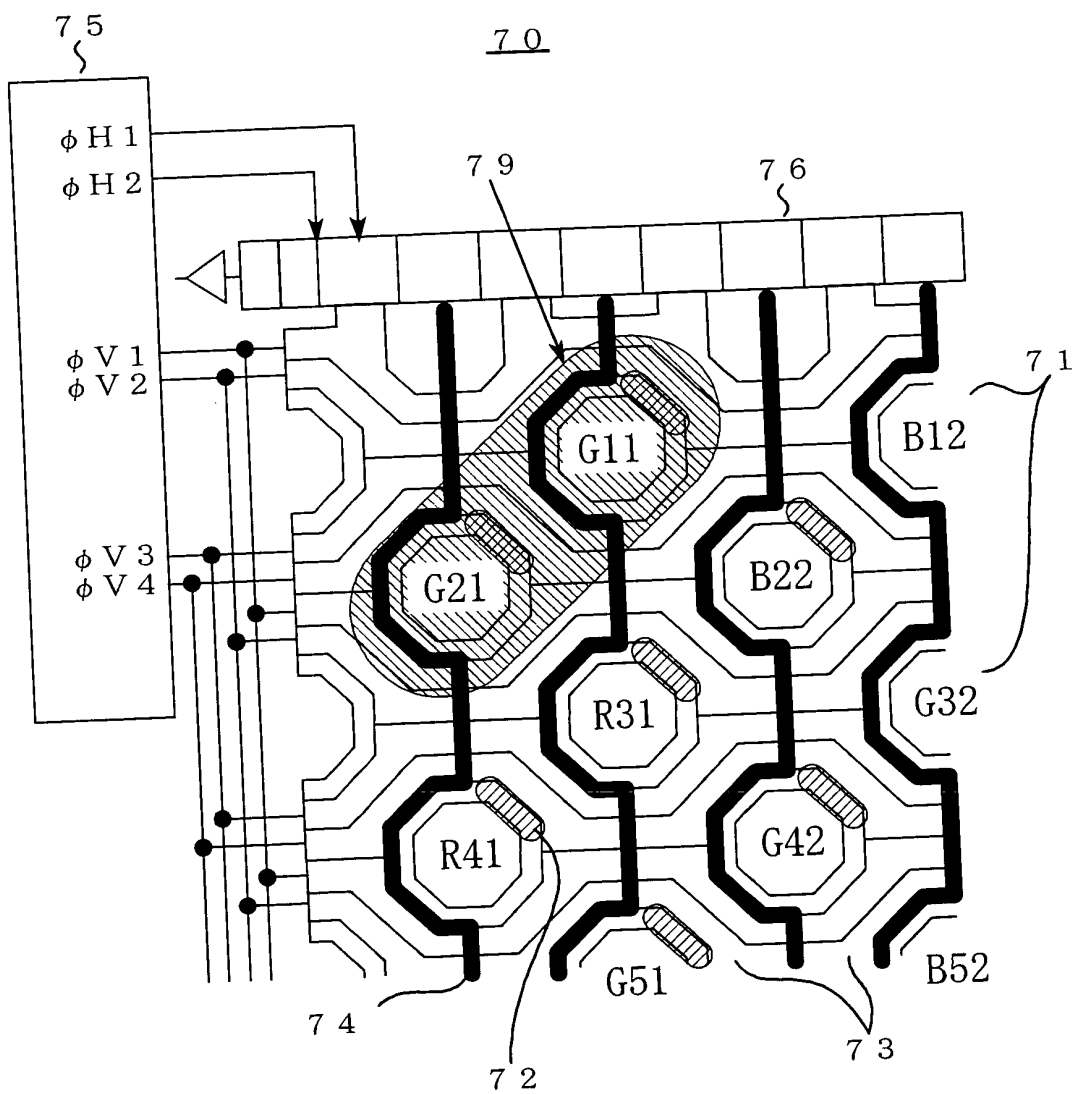
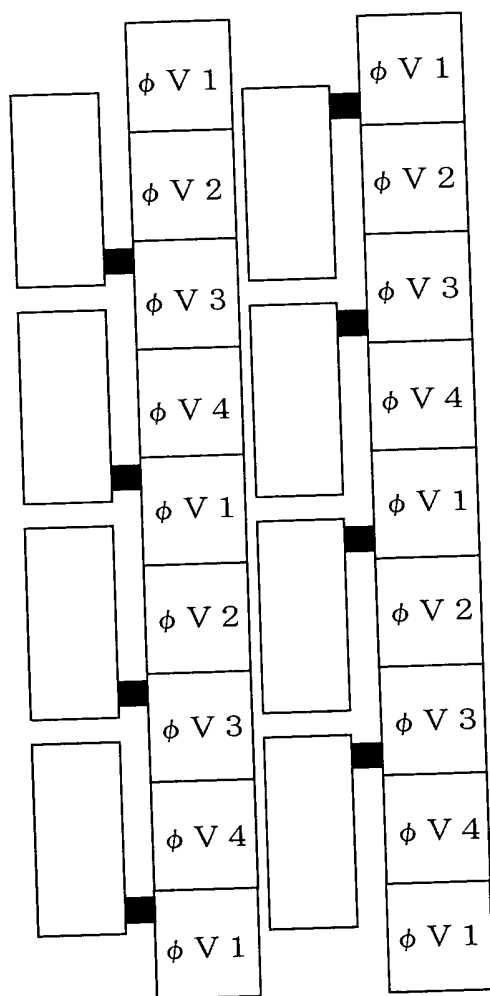


FIG. 13

[A PATTERN]



[B PATTERN]

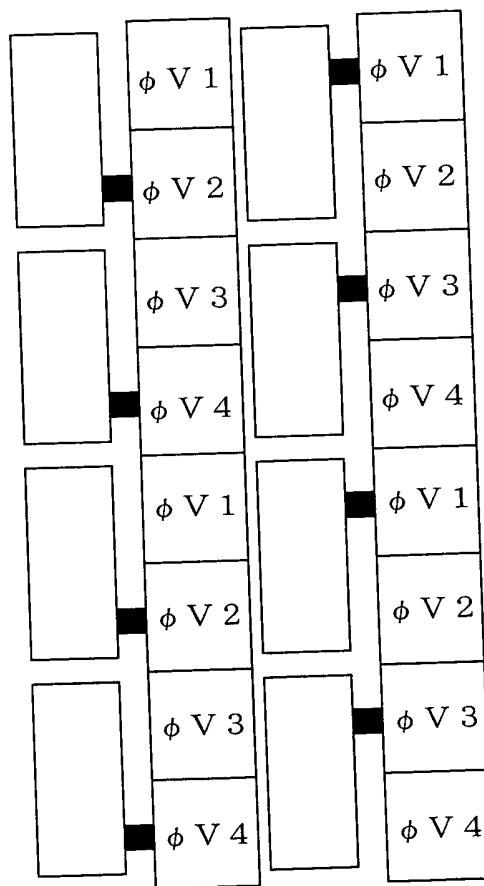


FIG. 1 4

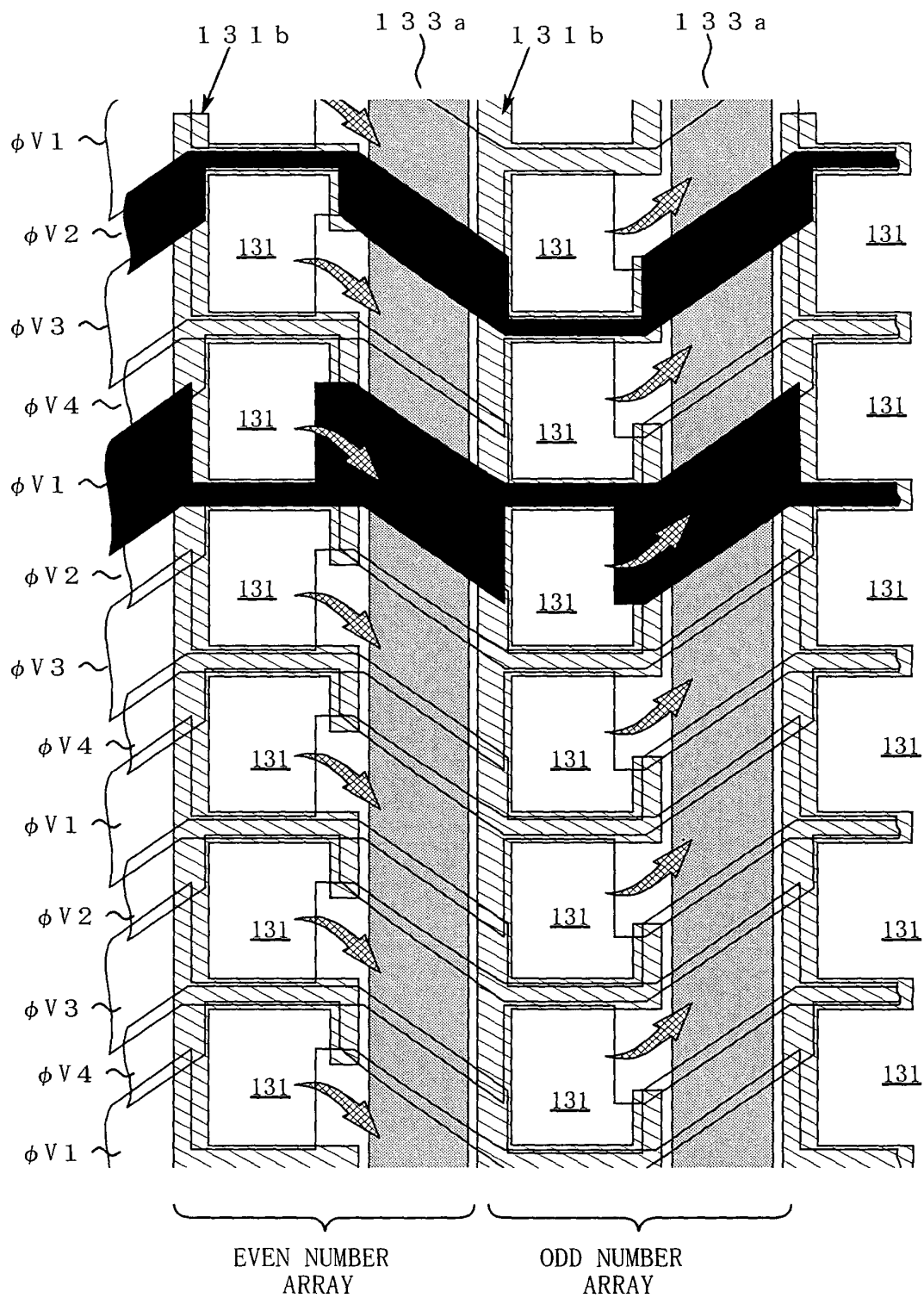


FIG. 16

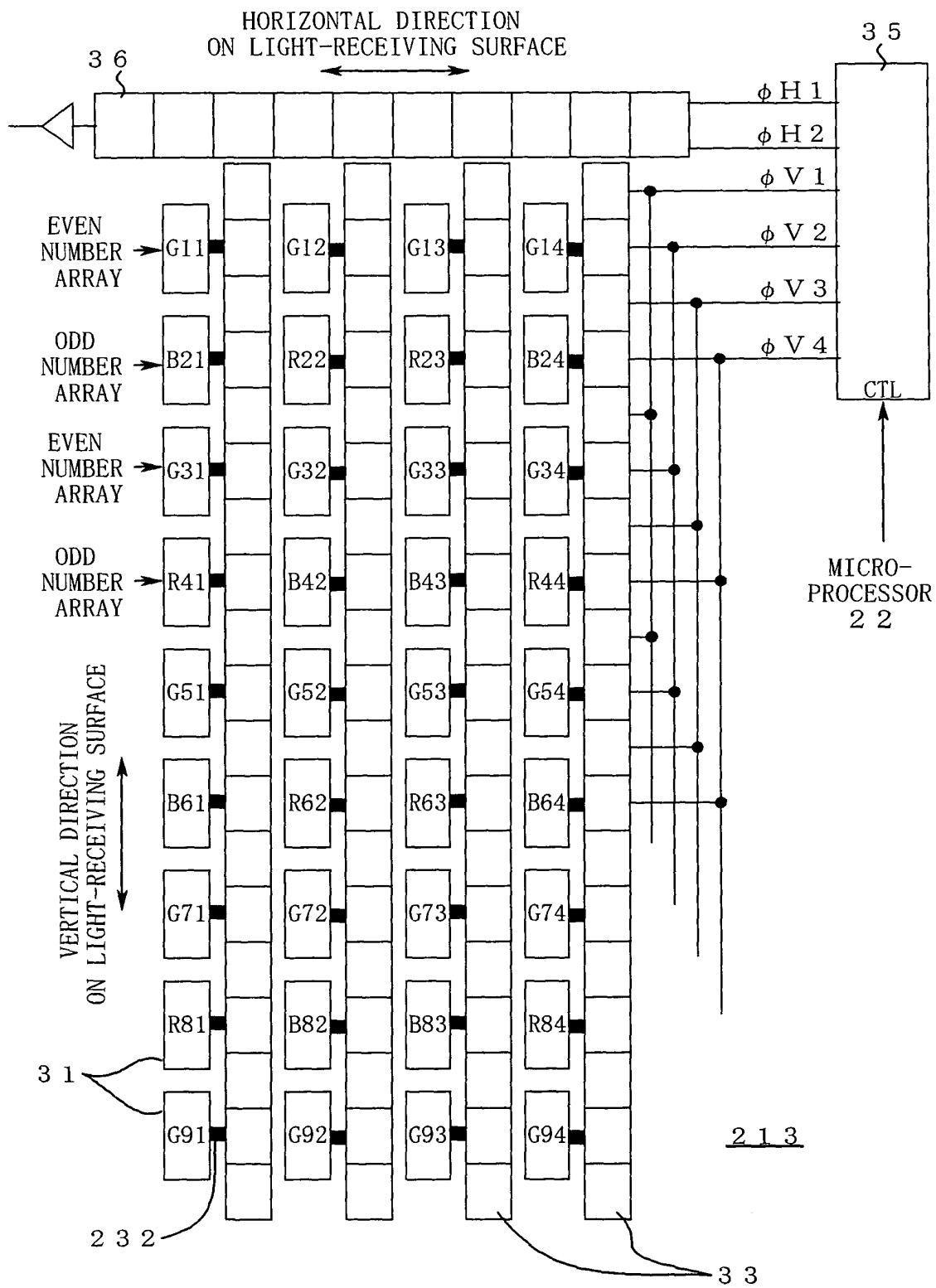


FIG. 18

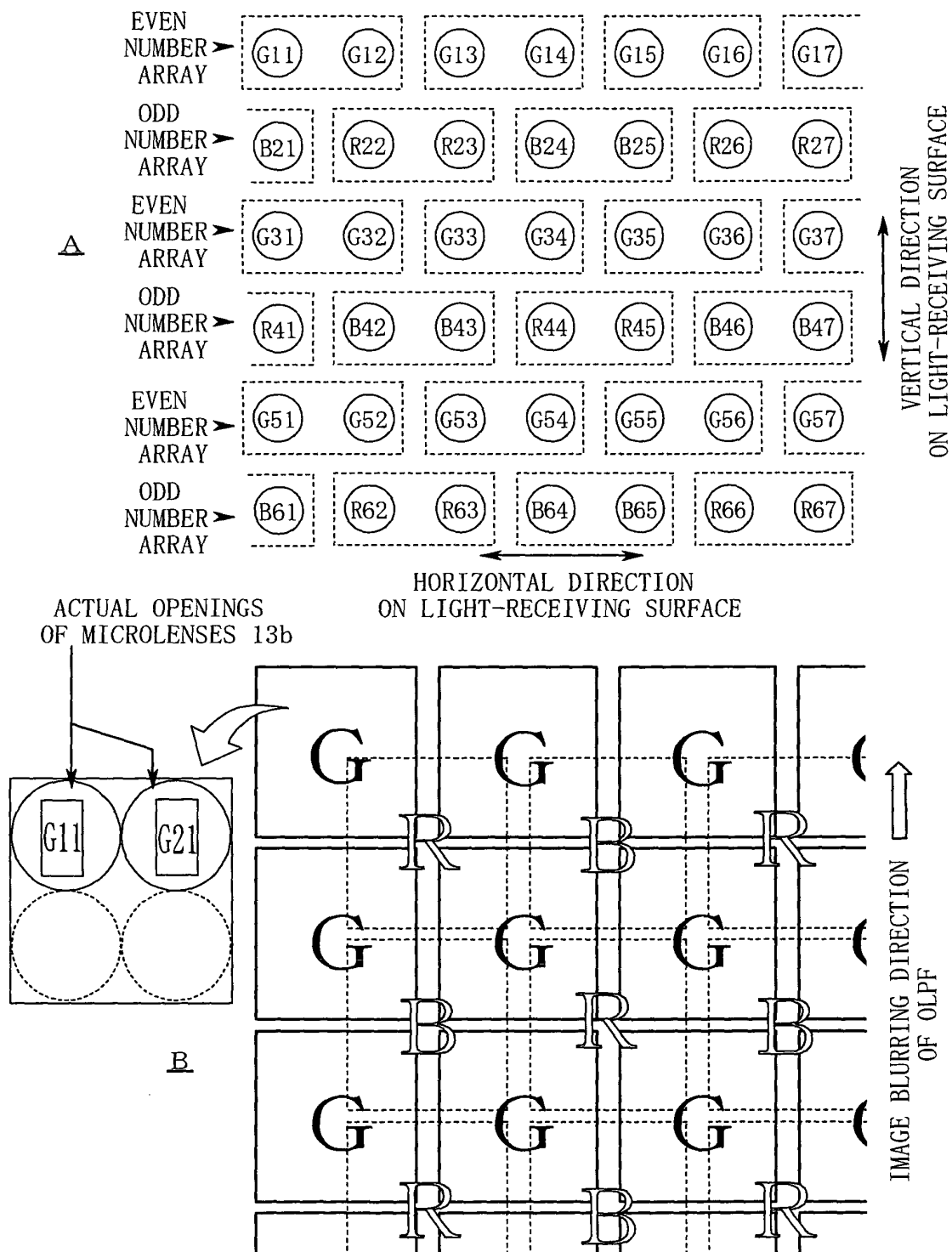
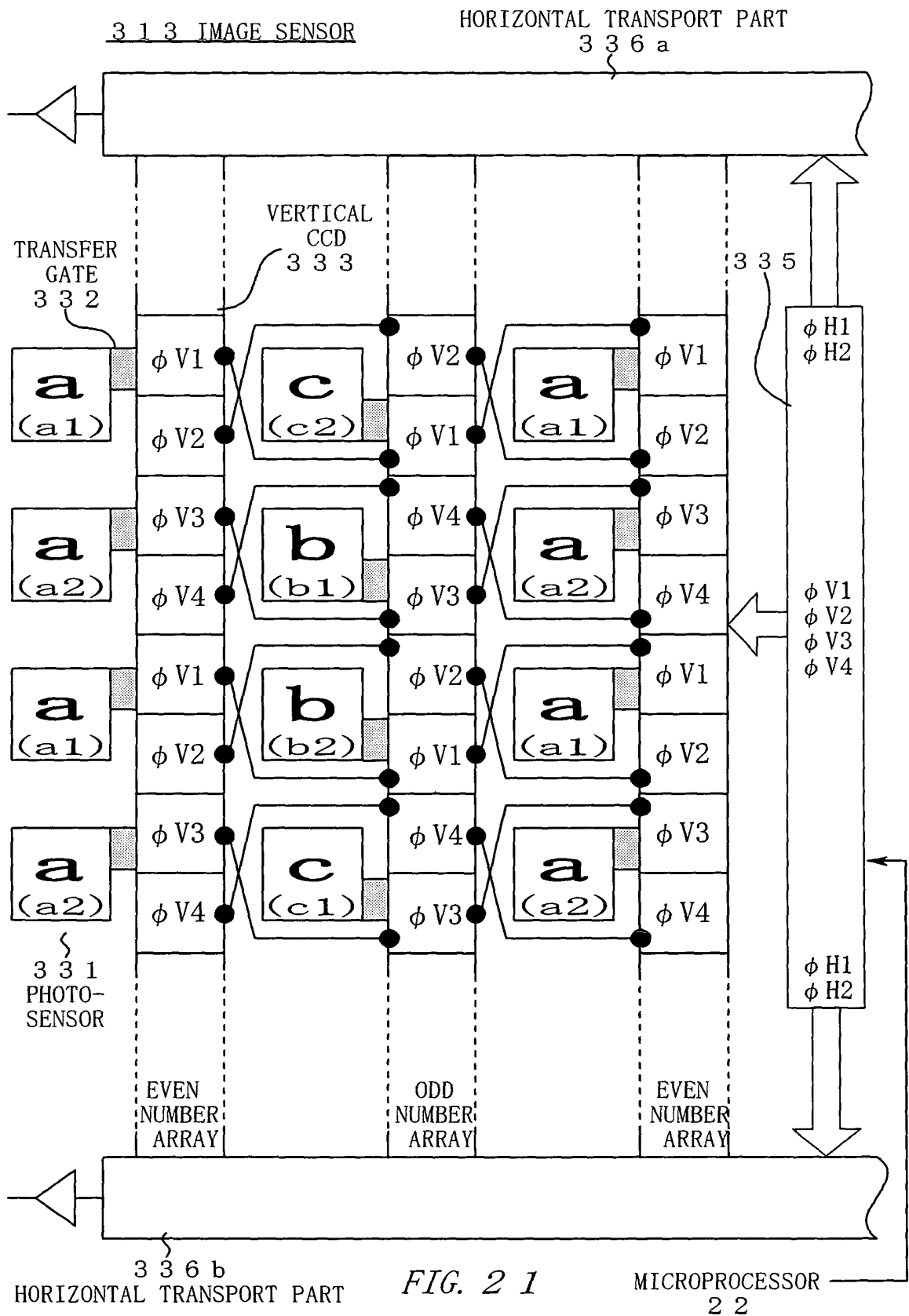


FIG. 19



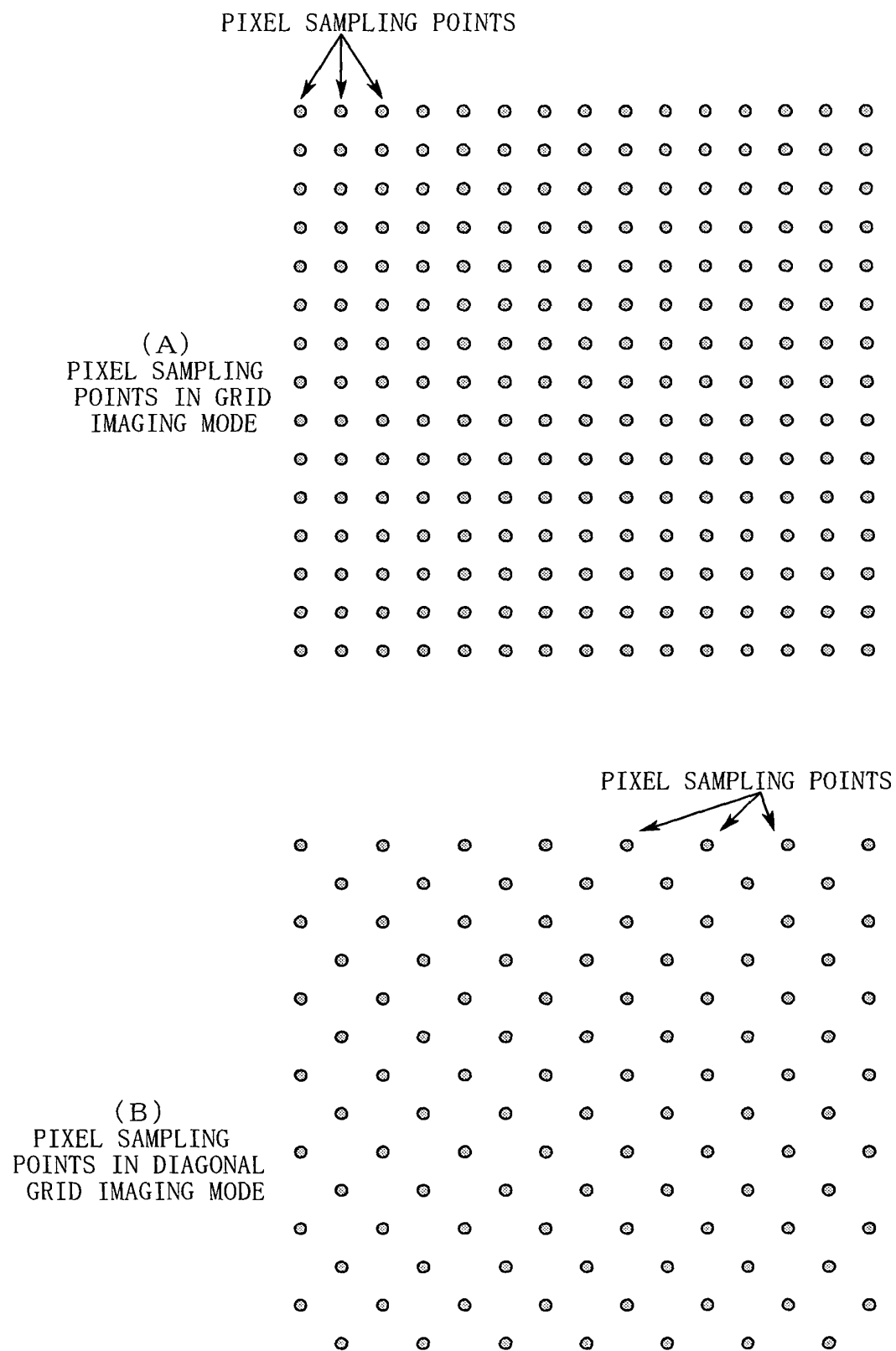


FIG. 2 2

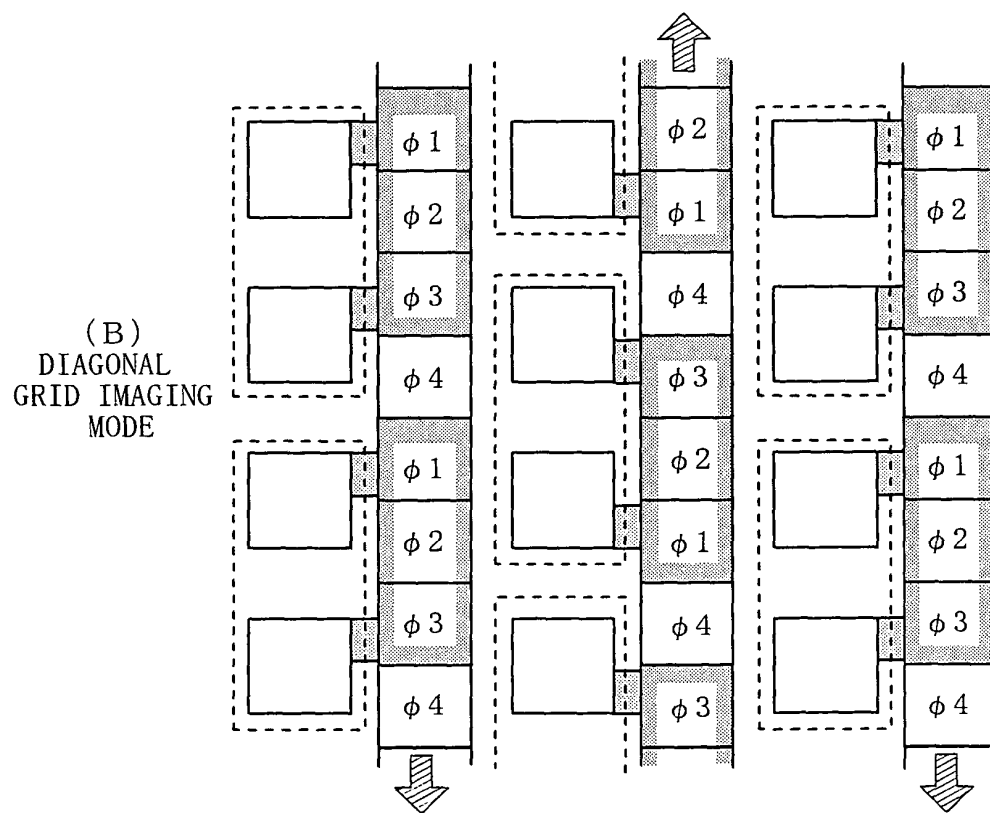
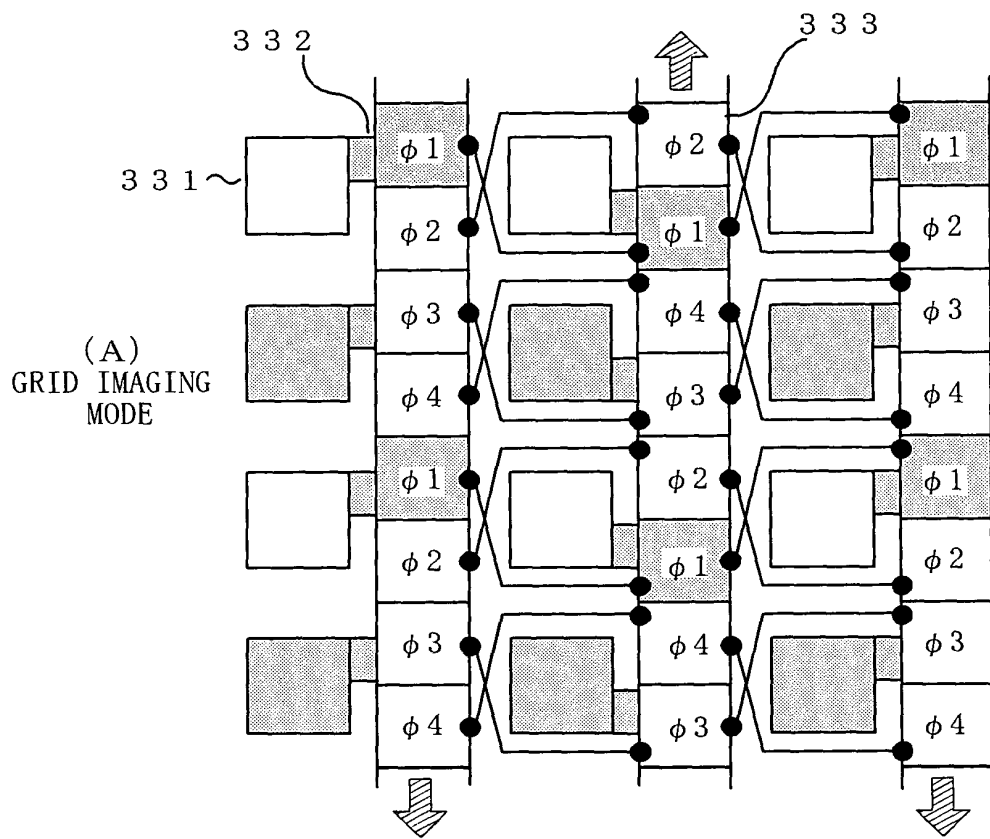


FIG. 23

FIG. 2 4

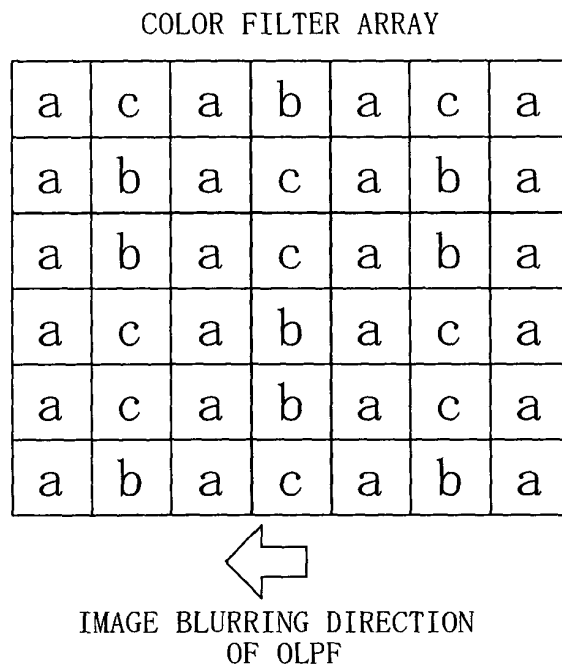
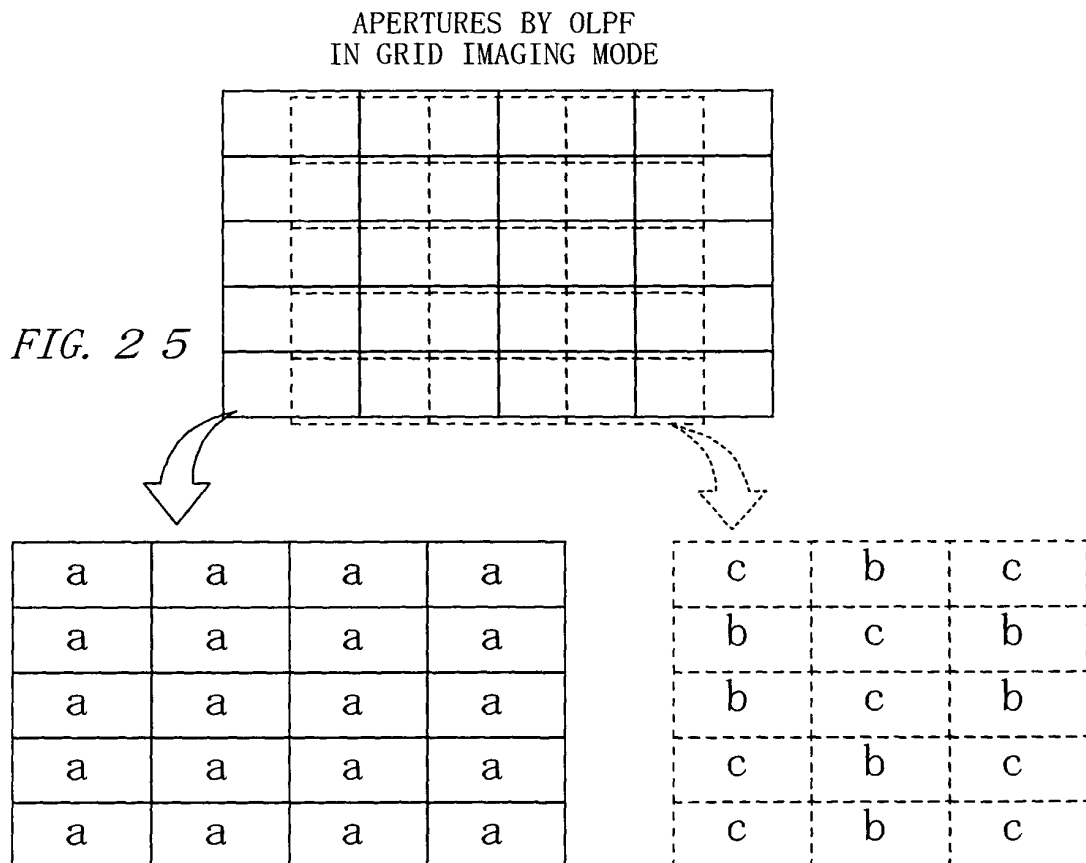
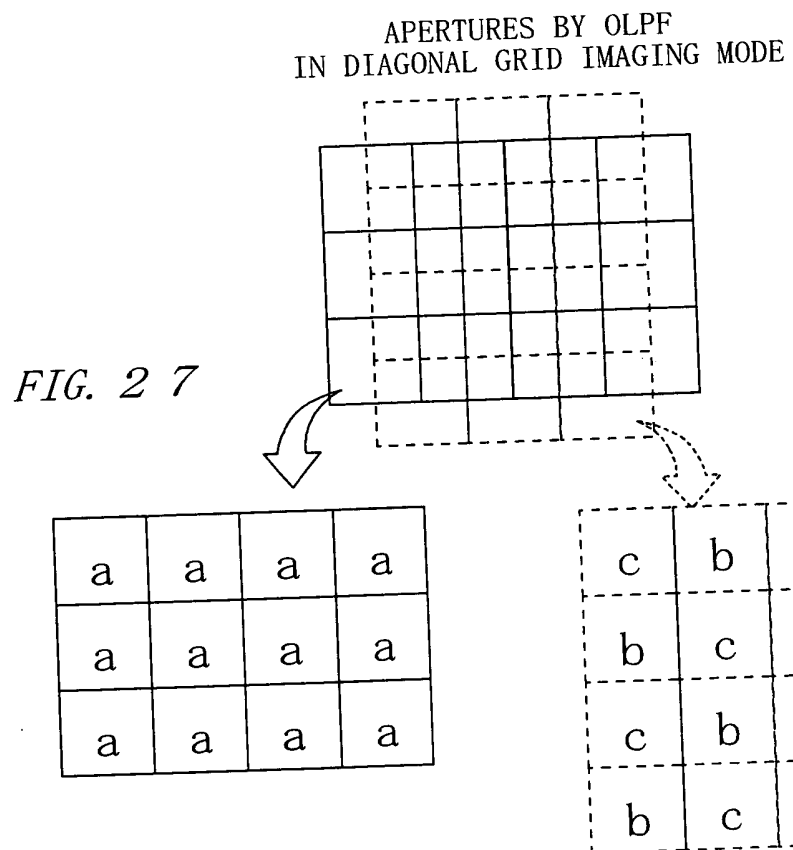
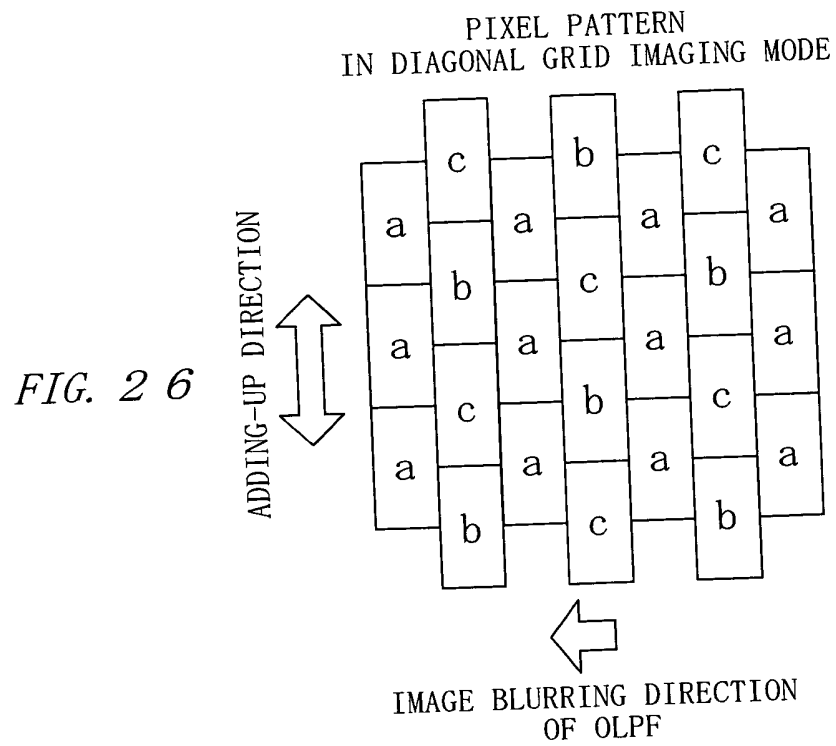


FIG. 2 5





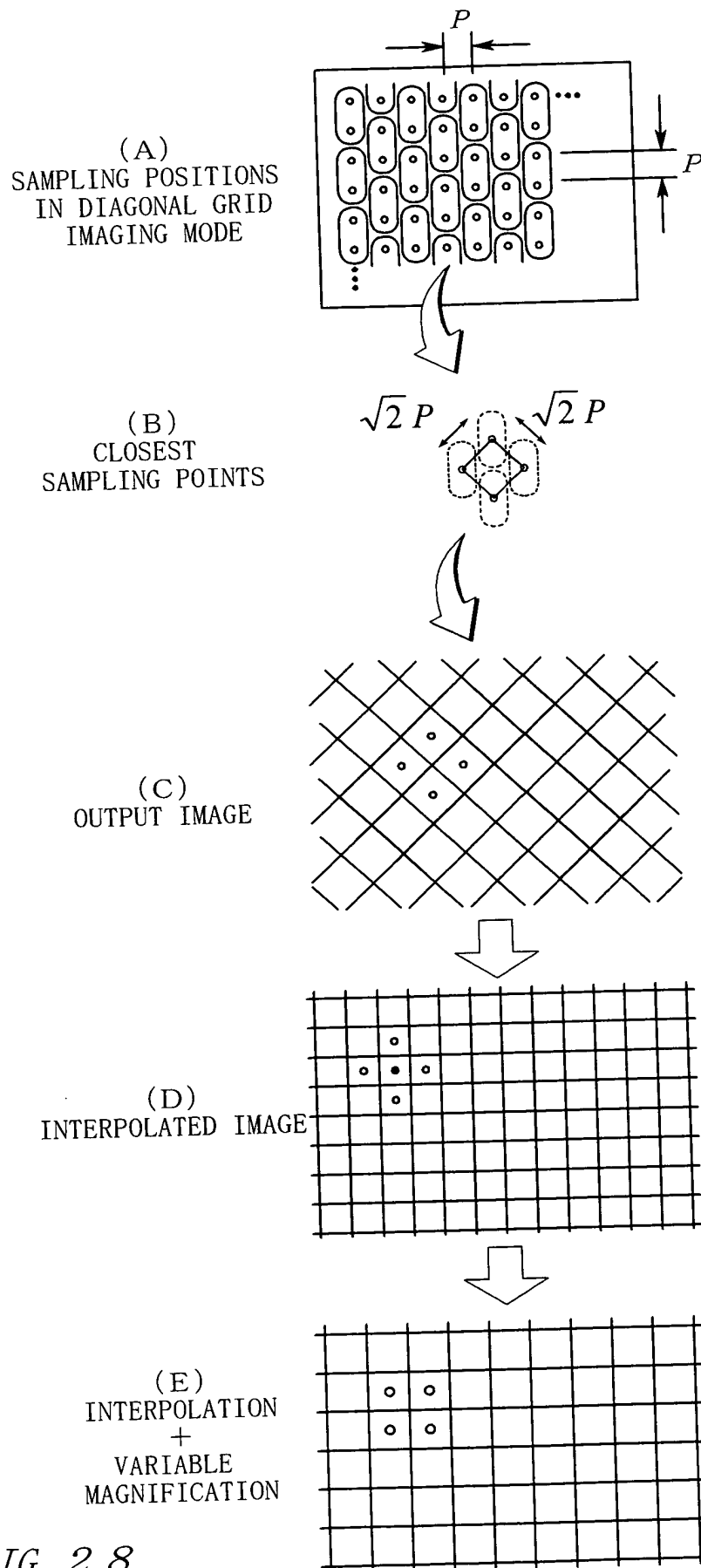


FIG. 28

CONTROL CIRCUIT

3 5 5

3 5 0 IMAGE SENSOR

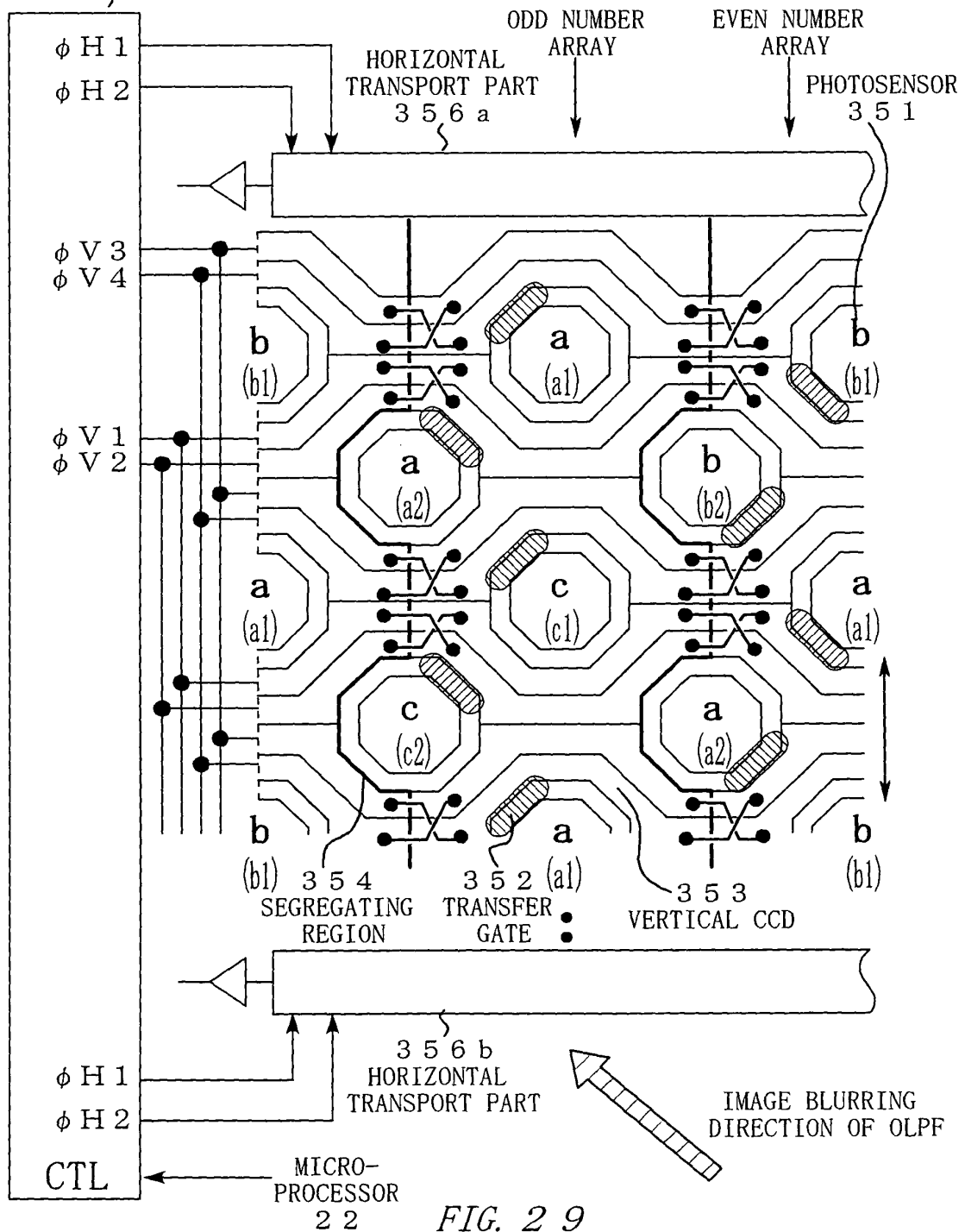


FIG. 2 9

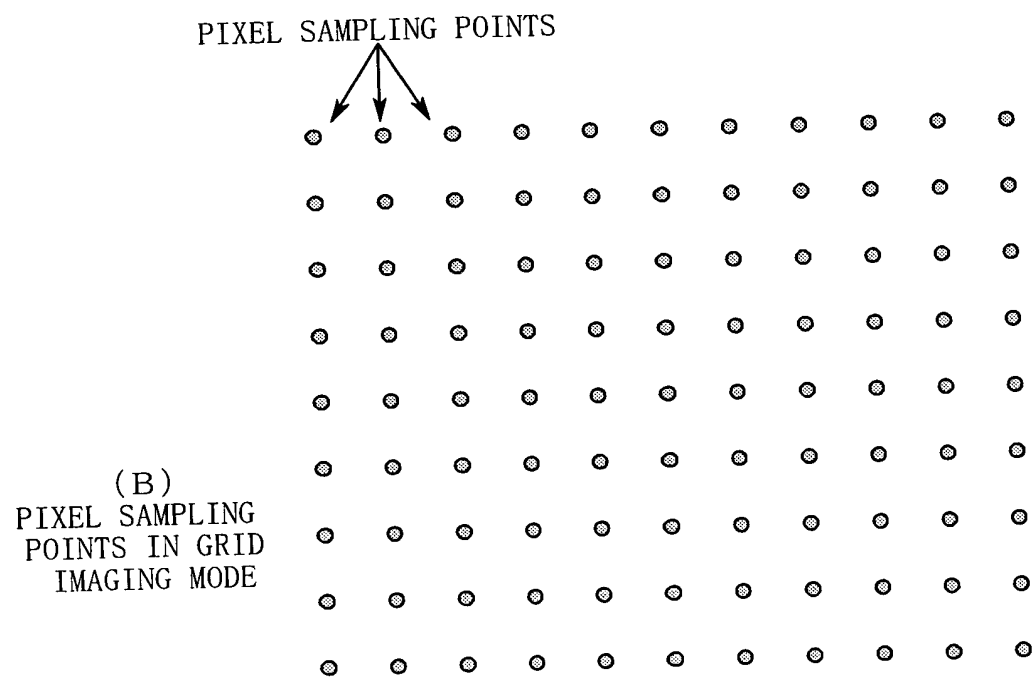
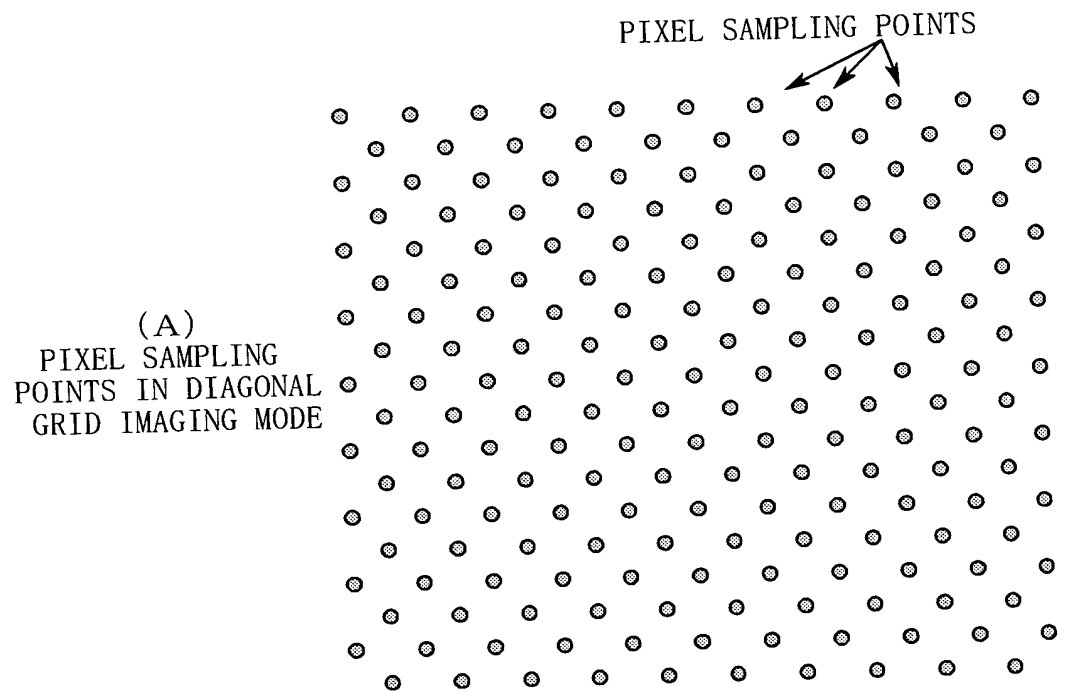


FIG. 3 0

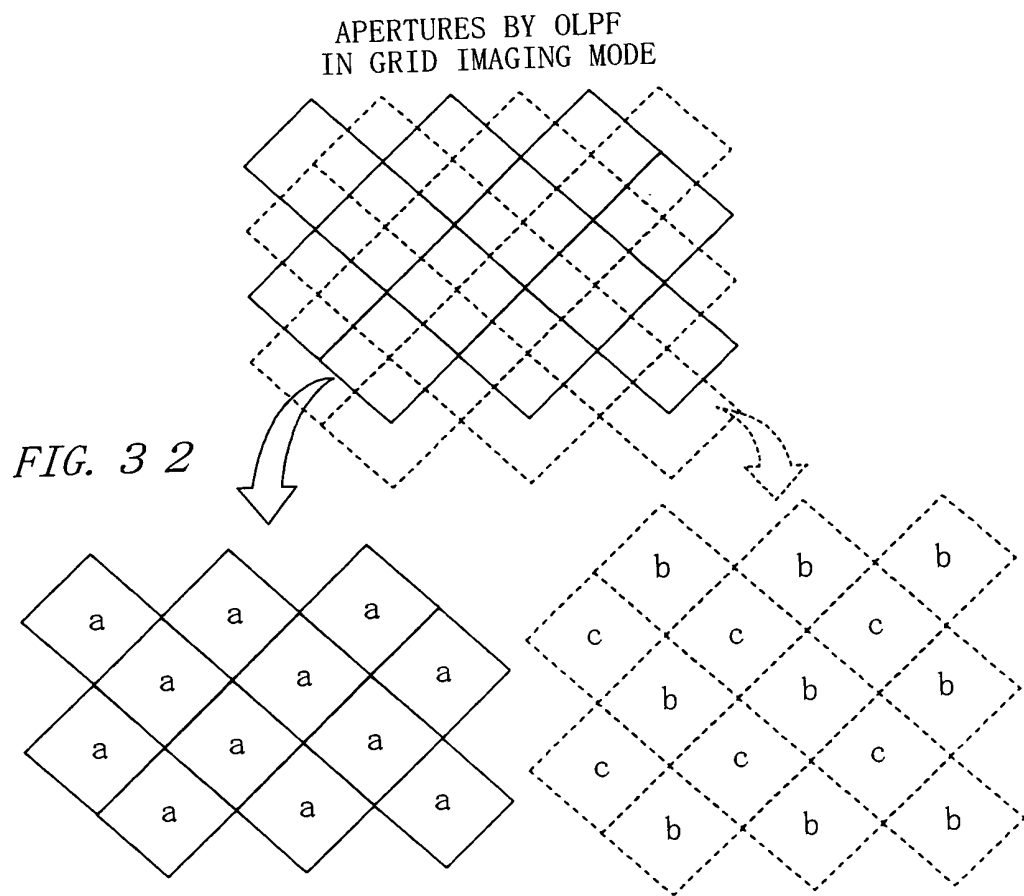
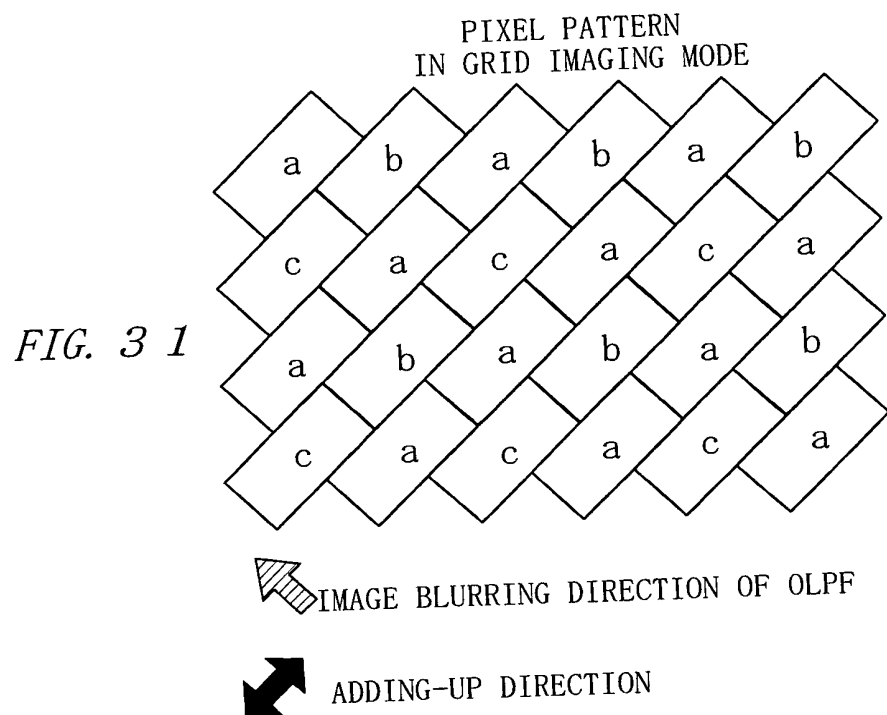


FIG. 3 3

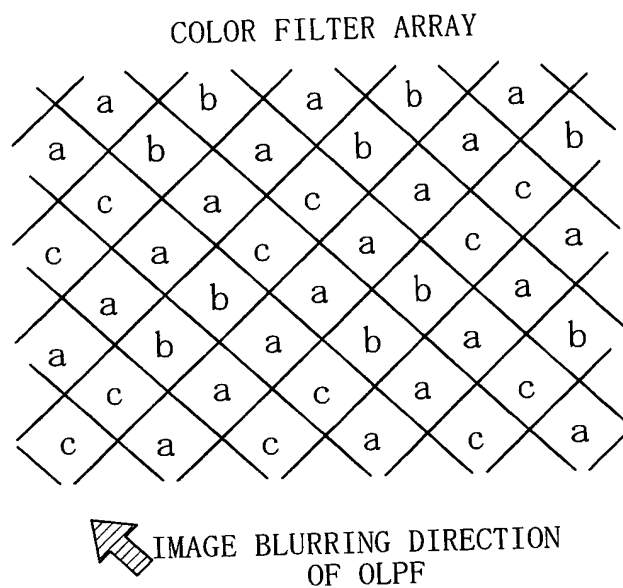
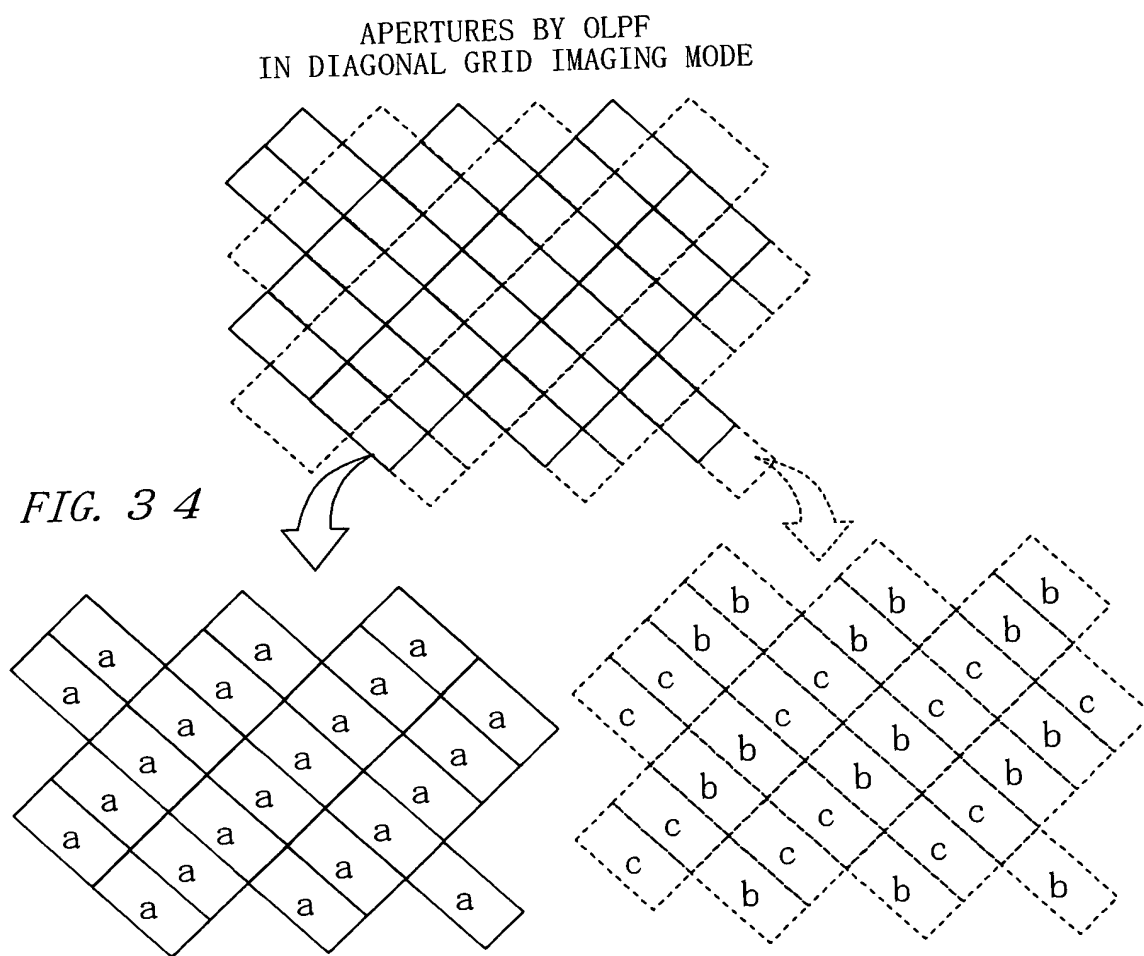


FIG. 3 4



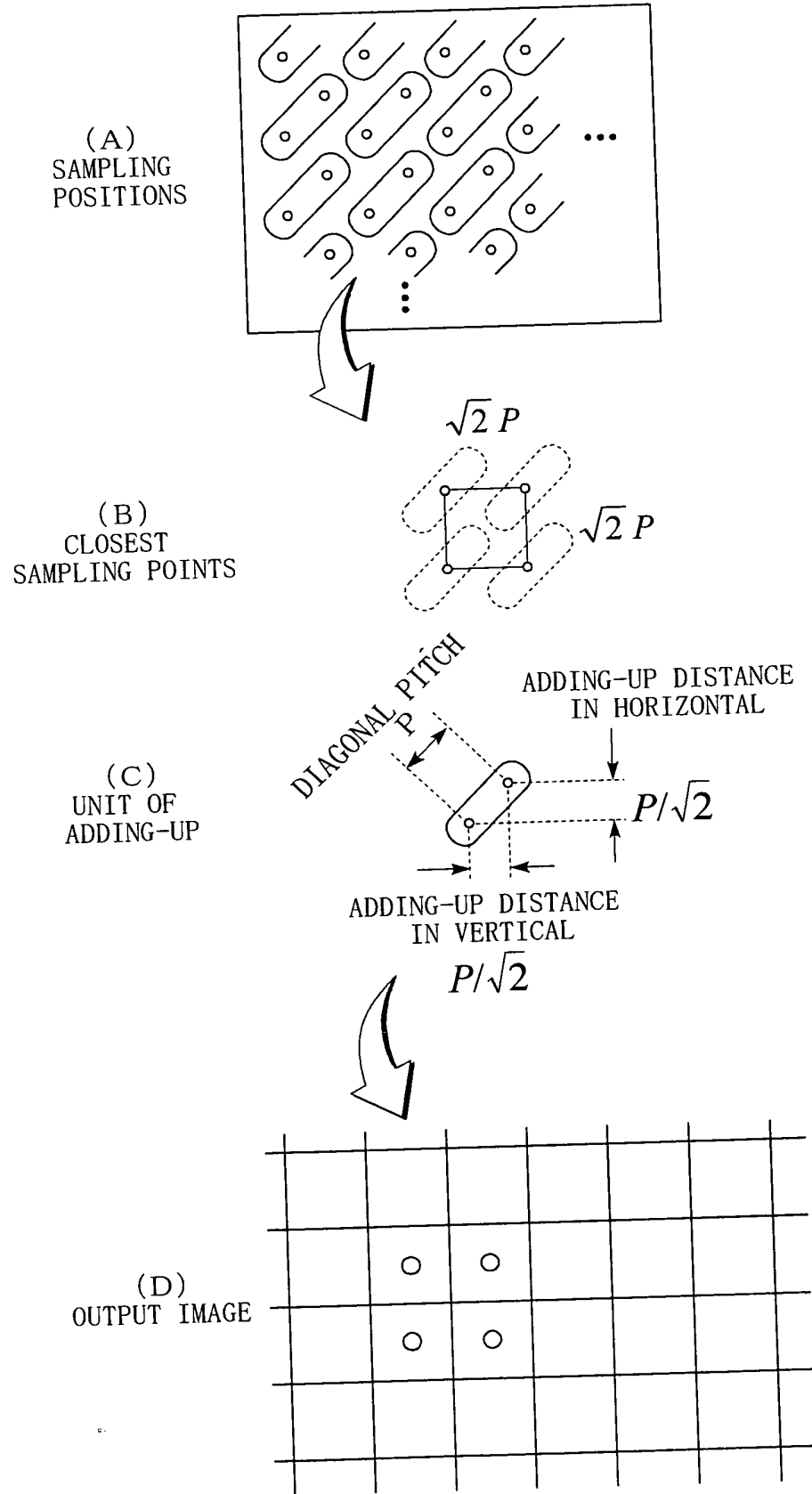
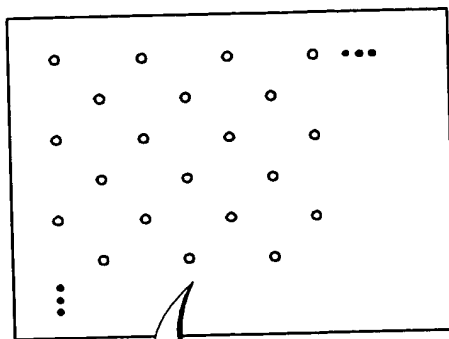
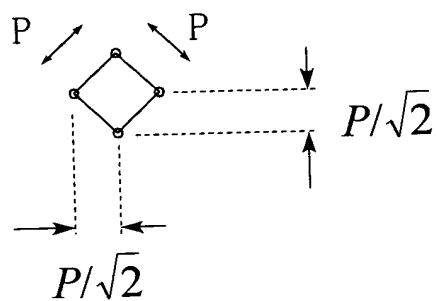


FIG. 3 5

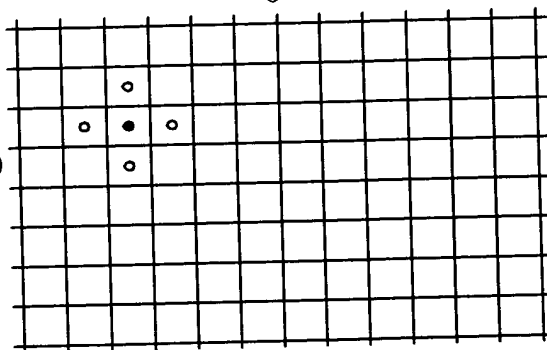
(A)
SAMPLING
POSITIONS



(B)
CLOSEST
SAMPLING POINTS



(C)
INTERPOLATED
IMAGE



(D)
INTERPOLATION
+
VARIABLE
MAGNIFICATION

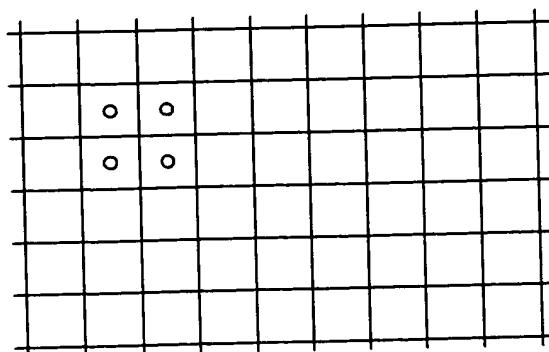


FIG. 3 6

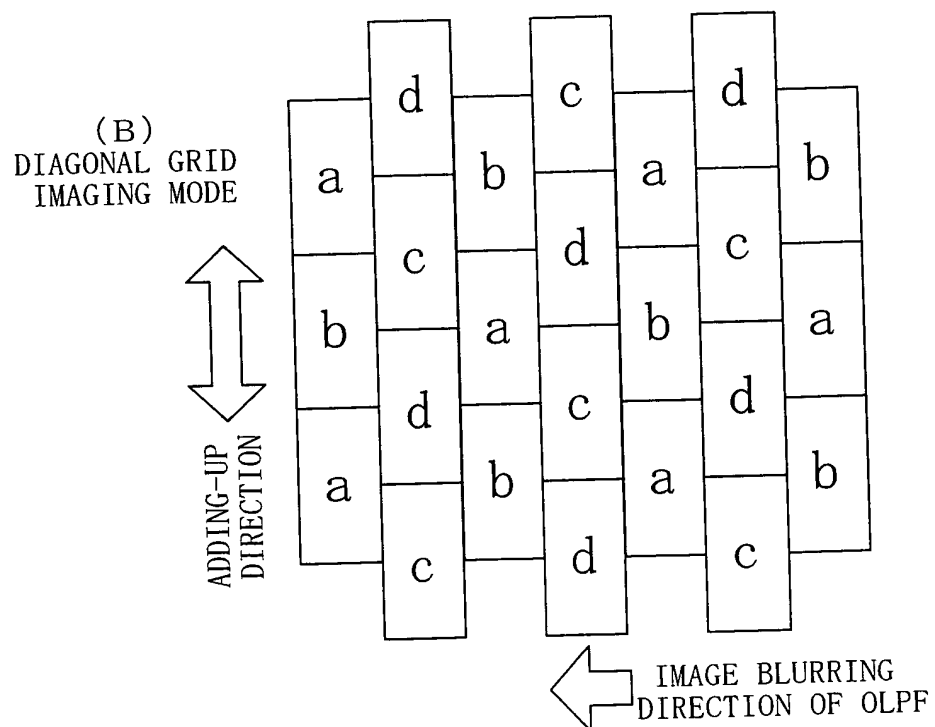
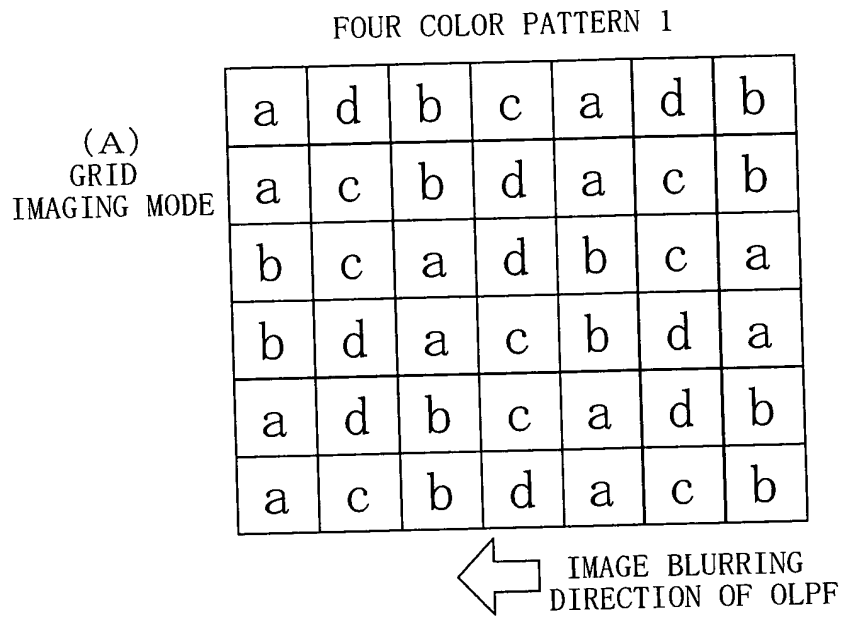


FIG. 3 7

FOUR COLOR PATTERN 2

(A)
GRID IMAGING
MODE

a	d	a	c	a	d	a
a	c	a	d	a	c	a
b	c	b	d	b	c	b
b	d	b	c	b	d	b
a	d	a	c	a	d	a
a	c	a	d	a	c	a

← IMAGE BLURRING
DIRECTION OF OLPF

(B)
DIAGONAL GRID
IMAGING MODE

a	d	a	c	a	d	a
b	c	b	d	b	c	b
a	d	a	c	a	d	a
c		d		c		d

↑
ADDING-UP
DIRECTION

← IMAGE BLURRING
DIRECTION OF OLPF

FIG. 38

9 1 ELECTRONIC CAMERA

